

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Alexander Gad et al. #7
Serial No. : 09/816,989 copy
Filed : March 23, 2001
For : TREATMENT OF AUTOIMMUNE CONDITIONS WITH
COPOLYMER 1 AND RELATED COPOLYMERS AND
PEPTIDES

1185 Avenue of the Americas
New York, New York 10036
December 21, 2001

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

STATEMENT IN ACCORDANCE WITH 37 C.F.R. §1.825(b)

In accordance with 37 C.F.R. 1.825(b), I hereby certify that the computer readable form containing the nucleic acid and/or amino acid sequences required by 37 C.F.R. 1.825(b) and submitted herewith includes no new matter and has the same information as the substitute sheets of the "Sequence Listing," attached hereto as **Exhibit B**. Also, in accordance with 37 C.F.R. 1.825(b), I hereby certify that the substitute sheets of the "Sequence Listing," attached hereto as **Exhibit B**, containing the nucleic acid and/or amino acid sequences required by 37 C.F.R. 1.825(b) and submitted herewith include no new matter.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that

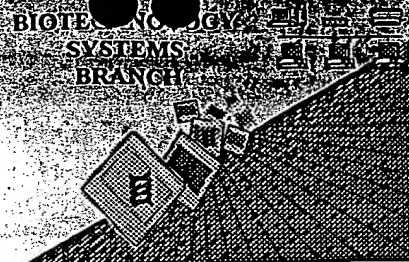
Applicants : Alexander Gad et al.
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Filed : March 23, 2001
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such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Christine S. Nickles
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(212) 278-0400

**RAW SEQUENCE LISTING
ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/816,989

Source: OIP E

Date Processed by STIC: 08/21/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be downloaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/816,989

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 ✓ Use of <220> Sequence(s) 6 missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING

DATE: 08/21/2001

PATENT APPLICATION: US/09/816,989

TIME: 11:38:59

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I816989.raw

3 <110> APPLICANT: Alexander Gad
 4 Doris Lis
 6 <120> TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT
 MARKERS AND
 7 FOR THERAPEUTIC USE
 9 <130> FILE REFERENCE: 60807-PCT-US
 11 <140> CURRENT APPLICATION NUMBER: 09/816,989
 12 <141> CURRENT FILING DATE: 1999-09-24
 14 <150> PRIOR APPLICATION NUMBER: PCT/US99/22402
 15 <151> PRIOR FILING DATE: 1999-09-24
 17 <160> NUMBER OF SEQ ID NOS: 7
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 35
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Artificial Sequence ✓
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE ✓
 29 <400> SEQUENCE: 1
 31 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Ala Lys Lys Ala Tyr Lys
 32 1 5 10 15
 35 Lys Glu Ala Lys Ala Lys Ala Ala Glu Ala Ala Ala Lys Glu Ala Ala
 36 20 25 30
 39 Tyr Glu Ala
 40 35
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 45
 45 <212> TYPE: PRT
 46 <213> ORGANISM: Artificial Sequence ✓
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE ✓
 51 <400> SEQUENCE: 2
 53 Ala Lys Lys Tyr Ala Lys Lys Ala Lys Ala Glu Lys Ala Lys Lys Ala
 54 1 5 10 15
 57 Tyr Lys Ala Ala Glu Ala Lys Lys Ala Ala Lys Tyr Glu Lys Ala Ala
 58 20 25 30
 61 Ala Glu Lys Ala Ala Ala Lys Glu Ala Ala Tyr Glu Ala
 62 35 40 45
 65 <210> SEQ ID NO: 3
 66 <211> LENGTH: 56
 67 <212> TYPE: PRT
 68 <213> ORGANISM: Artificial Sequence ✓
 70 <220> FEATURE:
 71 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE ✓
 73 <400> SEQUENCE: 3
 75 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Lys Ala Glu
 76 1 5 10 15
 79 Lys Ala Ala Lys Lys Ala Glu Ala Lys Ala Tyr Lys Ala Ala Glu Ala

Does Not Comply
 Corrected Diskette Needed

See page 2 of 5

RAW SEQUENCE LISTING

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DATE: 08/21/2001

TIME: 11:38:59

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I816989.raw

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80          20          25          30
83 Lys Lys Lys Ala Glu Ala Lys Tyr Lys Ala Glu Ala Ala Lys Ala Ala
84          35          40          45
87 Ala Lys Glu Ala Ala Tyr Glu Ala
88          50          55
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 66
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence ✓
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE ✓
99 <400> SEQUENCE: 4
101 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Ala Lys Lys
102 1          5          10          15
105 Ala Glu Ala Lys Ala Ala Lys Lys Ala Lys Ala Glu Ala Lys Lys Tyr
106          20          25          30
109 Ala Lys Ala Ala Lys Ala Glu Lys Glu Tyr Ala Ala Ala Glu Ala
110          35          40          45
113 Lys Tyr Lys Lys Ala Glu Ala Ala Lys Ala Ala Ala Lys Glu Ala Ala Tyr
114          50          55          60
117 Glu Ala
118 65
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 77
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence ✓
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE ✓
129 <400> SEQUENCE: 5
131 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Lys Ala Glu
132 1          5          10          15
135 Lys Ala Ala Lys Lys Ala Glu Ala Lys Ala Tyr Lys Ala Ala Glu Ala
136          20          25          30
139 Lys Lys Lys Ala Lys Ala Glu Ala Lys Lys Tyr Ala Lys Ala Ala Lys
140          35          40          45
143 Ala Glu Lys Lys Glu Tyr Ala Ala Ala Glu Ala Lys Tyr Lys Ala Glu
144          50          55          60
147 Ala Ala Lys Ala Ala Ala Lys Glu Ala Ala Tyr Glu Ala
148 65          70          75
151 <210> SEQ ID NO: 6
152 <211> LENGTH: 86
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence ✓
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence SYNTHETIC P ✓
159 <400> SEQUENCE: 6
161 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Lys Ala Glu
162 1          5          10          15
165 Lys Ala Ala Lys Lys Ala Glu Ala Lys Ala Tyr Lys Ala Ala Glu Ala

```

Entered

SYNTHETIC P

*need to describe
artificial sequence
in field 223*

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/816,989

DATE: 08/21/2001
 TIME: 11:38:59

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I816989.raw

166 20 25 30
 169 Lys Lys Lys Ala Lys Ala Glu Ala Lys Lys Tyr Ala Lys Ala Ala Lys
 170 35 40 45
 173 Ala Glu Lys Lys Glu Tyr Ala Ala Ala Glu Ala Lys Tyr Lys Ala Glu
 174 50 55 60
 177 Ala Ala Lys Lys Ala Tyr Lys Ala Glu Ala Ala Lys Ala Ala Ala Lys
 178 65 70 75 80
 181 Glu Ala Ala Tyr Glu Ala
 182 85
 185 <210> SEQ ID NO: 7
 186 <211> LENGTH: 109
 187 <212> TYPE: PRT
 188 <213> ORGANISM: Artificial Sequence
 190 <220> FEATURE:
 191 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
 193 <400> SEQUENCE: 7
 195 Ala Lys Lys Tyr Ala Lys Lys Ala Glu Lys Ala Tyr Ala Lys Lys Ala
 196 1 5 10 15
 199 Lys Ala Ala Lys Glu Lys Lys Ala Tyr Ala Lys Lys Glu Ala Lys Ala
 200 20 25 30
 203 Tyr Lys Ala Ala Glu Ala Lys Lys Lys Ala Lys Ala Glu Ala Lys Lys
 204 35 40 45
 207 Tyr Ala Lys Glu Ala Ala Lys Ala Lys Lys Glu Ala Tyr Lys Ala Glu
 208 50 55 60
 211 Ala Lys Lys Tyr Ala Lys Ala Ala Lys Ala Glu Lys Lys Glu Tyr Ala
 212 65 70 75 80
 215 Ala Ala Glu Ala Lys Lys Ala Glu Ala Ala Lys Ala Tyr Lys Ala Glu
 216 85 90 95
 219 Ala Ala Lys Ala Ala Ala Lys Glu Ala Ala Tyr Glu Ala
 220 100 105

OK

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/816,989

DATE: 08/21/2001

TIME: 11:39:00

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I816989.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date